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Amendments to the Claims:

Claims 7, 14 and 21 have been amended herein. Please note that all claims currently pending and under consideration in the above-referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-6 (Canceled)

7. (Currently amended) A rocket motor, comprising:

an insulation material disposed between an inner surface of a case of the a rocket motor and a propellant, the insulation material consisting essentially of a low-density ethylene propylene diene monomer polymer, ammonium polyphosphate at least one flame retardant, at least one siliea, a curing agent sulfur, an organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride, and at least one additive selected from the group consisting of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer.

Claims 8-13 (Canceled)

14. (Currently amended) A method of insulating a rocket motor comprising: producing an insulation material consisting essentially of a low-density ethylene propylene diene monomer polymer, ammonium polyphosphate at least one flame retardant, at least one silica, a curing agent sulfur, an organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride, and at least one additive selected from the group consisting of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer; and

applying the insulation material to an inner surface of a case of the a rocket motor.

Claims 15-19 (Canceled)

- (Original) The method of claim 14, further comprising:
 curing the insulation material to form an insulation layer positioned between the inner surface of the case of the rocket motor and a propellant.
- (Withdrawn-currently amended) An insulation material for use in a rocket motor, consisting essentially-of:

a low-density ethylene propylene diene monomer polymer;

ammonium polyphosphate at least one flame retardant:

at least one silica;

an organic filler selected from the group consisting of polyvinyl chloride, polyphenylene sulfide, melamine, and a homopolymer of vinylidene chloride;

a curing agent sulfur; and

at least one additive selected from the group consisting of at least one antioxidant, at least one cure accelerator, at least one cure activator, at least one tackifier, and at least one plasticizer.

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- (Withdrawn) The insulation material of claim 21, further comprising earbon black.
- (Previously presented) The rocket motor of claim 7, wherein the insulation material further comprises carbon black.
- (Previously presented) The method of claim 14, wherein producing an insulation material comprises producing the insulation material further comprising carbon black.